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0226189

Office of Technical Services

$dx = y - f(x)$, $dy = z - x$, and $dz = ax - bf(x)$. A method is also advanced for constructing a Lyapunov function for Aizerman-type systems these Lyapunov functions are of the form: integral of the nonlinearity plus a quadratic form in the state variables. Two of the twelve theorems yield sufficient conditions for the existence of periodic solutions of the above system much of the discussion evolves about when satisfaction of the generalized Routh-Hurwitz implies stability in the large for the null solution. No examples or indication towards practical application of the theorems is given. (ASTIA abstract)

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